IN THE CLAIMS:

1. (Currently Amended) A process for removing arsenic compounds from the distillation bottoms obtained in the distillation of arsenic-containing hydrogen fluoride comprising

(a) concentrating distillation bottoms by evaporation of hydrogen fluoride until the temperature at the ~~bottom~~ bottoms is from 40 to 60°C, and

(b) reacting ~~the resulting~~ residue resulting from (a) with calcium hydroxide, calcium oxide, or a mixture thereof.

2. (Original) A process according to Claim 1 wherein the water content of the bottoms after concentration is less than 20% by weight.

3. (Original) A process according to Claim 1 wherein the arsenic-containing hydrogen fluoride contains not more than 300 ppm of water, not more than 50 ppm of sulfuric acid, and not more than 50 ppm of sulfur dioxide.

4. (Currently Amended) A process according to Claim 1 wherein the amount of calcium hydroxide, calcium oxide, or mixture thereof corresponds to the amount necessary for stoichiometric conversion of the distillation bottoms comprising ~~products selected from the group consisting of~~ sulfuric acid, hydrofluoric acid, and hexafluoroarsenic acid into the corresponding calcium compounds.